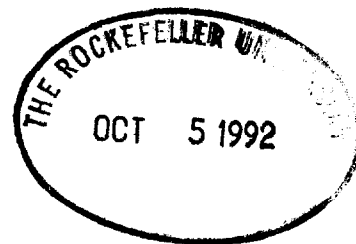


Yale University

Department of Biology
Osborn Memorial Laboratories
P.O. Box 6666
New Haven, Connecticut 06511-7444

Campus address:
Osborn Memorial Laboratories
165 Prospect Street
Telephone: 203 432-3850
Fax: 203 432-3854



October 1, 1992

Dr. Joshua Lederberg
The Rockefeller University
1230 York Avenue
New York, New York 10021-6399

Dear Josh:

I apologize. W1177 is λ^+ . The strains are λ^R , however. The old mal-1 marker, which arose in strain W1, is a malT mutation in the "malA" cluster. malT is a positive regulatory gene which controls the mal regulon. The "malB" cluster includes lamB so malT strains are lambda resistant.

We shall test W1177 for streptomycin resistance. I don't recall ever having heard of the reversion of a streptomycin resistance marker. I doubt that there can be strong selection against rpsL mutations, in general.

We do not have strain NM522. On returning to town yesterday I found another letter requesting this strain. It must have appeared in a recent paper (or laboratory manual)?

I don't have a reference for Signer's widely-used strain E5014. He was very helpful in working out its derivation but did not give me a reference to a paper describing its construction. The pedigree is enclosed.

I note that, in Brooks Low's classical paper on F' strains, there is no published reference to F128 - only a personal communication from Signer. See: Low 1972 Bacteriol. Rev. 36:587-607.

My apologies again for the careless error on the description card for W1177.

Sincerely,

A handwritten signature in cursive script that reads "Barbara".

Barbara J. Bachmann
Curator, E. coli Genetic Stock Center

3JB/bac

Signer Strains

#3677

2000 XIII F_{TS}^{-} - lac⁺ = EC-O F' [Paris p. 5.19; Beckwith p. 4]

thi-1
 $\Delta(\text{proB-lac})_{XIII}$ DE5
 λ^{-}
 sup E44
 rel A1?
 F42-114 TS

↓ lac⁻ segregant
 #5383

X7026 F'

thi-1
 $\Delta(\text{proB-lac})_{XIII}$ DE5
 λ^{-}
 sup E44
 rel A1?

[Chart 13]

P804 Hfr
 thi-1
 $\lambda d22$
 P065

X
X5096 F'
 $\Delta(\text{pro-lac})$

↓
E5013 F'
 $\Delta(\text{pro-lac})$

F128

↓ spont. spc sel'n

X5119 F'

thi-1
 $\Delta(\text{proB-lac})_{XIII}$ DE5
 spc-12
 λ^{-}
 sup E44
 rel A1?

#4288

E5014 F'

thi-1
 $\Delta(\text{proB-lac})_{XIII}$ DE5 $\Delta(\text{gpt-lac})5$
 spc-12 λ psE2112
 λ^{-}
 sup E44
 rel A1?
 mal-24 (detected by K.B. how)

F128